for 9173 1,704 1,804 2,040 2,246 2,356 2,470 Page 1 of 2 Hole in contly

The property of the property o 1,161 1,252 1,351 1,431 Contig.Ju49] Sequencher" "nucr-est" 208

Exmisit A p. 2 g. 4 09/081, 737

EXHIBIT R 09/081,737

Comp@heck: 1254

Average Match: 0.540 Average Mismatch: -0.396 Gap Weight: 3.000 Length Weight: 0.100

> Length: 311 Quality: 315.9

Gaps: 2
Percent Identity: 58.170 Ratio: 1.032
Percent Similarity: 75.817

ucp3.pep x UCP1



1	MVGLKPSDVPPTMAVKFLGAGTAACFADLVTFPLDTAKVRLQIQGENQAV	50
1	MGGLTASDVHPTLGVQLFSAGIAACLADVITFPLDTAKVRLQVQGEC	47
51	QTARLVQYRGVLGTILTMVRTEGPCSPYNGLVAGLOROMSFASIRIGLYD	100
48	PTSSVIRYKGVLGTITAVVKTEGRMKLYSGLPAGLQRQISSASLRIGLYD	97
101		
98	. .: : : :: .: : TVQEFLTAGKETAPSLGSKILAGLTTGGVAVFIGQPTEVVKVRLQAQSHL	147
151	GPSRSDRKYSGTMDAYRTIAREEGVRGLWKGTLPNIMRNAIVNCAEVVTY	200
148	HGIKP. RYTGTYNAYRIIATTEGLTGLWKGTTPNLMRSVIINCTELVTY	195
201	DILKEKLLDYHLLTDNFPCHFVSAFGAGFCATVVASPVDVVKTRYMNSPP	250
196	:: ::. :: . :. : : .:. :: DLMKEAFVKNNILADDVPCHLVSALIAGFCATAMSSPVDVVKTRFINSPP	245
251	GOYFSPLDCMIKMVAQEGPTAFYKGFTPSFLRLGSWNVVMFVTYEQLKRA	300
246		295
301	LMKVQMLRESP 311	
296	LSKSRQTMDCA 306	

Exmisit A 7.49,4 09/1081,737

CompCheck: 1254

Average Match: 0.540 Average Mismatch: -0.396 Gap Weight: 3.000 Length Weight: 0.100

> Length: 313 362.4 Quality: Gaps: . 3

Ratio: 1.173
Percent Similarity: 85.065 Percent Identity: 73.377

ucp3.pep x UCP2



1	MVGLKPSDVPPTMAVKFLGAGTAACFADLVTFPLDTAKVRLQIQGENQA.	49
1	MVGLRPSDVPPTMAVKFLGAGTAACTADLTTPLDTAKVRLQIQGESQGP : :. . : :	50
50	VQTARLVQYRGVLGTILTMVRTEGPCSPYNGLVAGLQRQMSFASIRIGLY	99
51	VRATASAQYRGVMGTILTMVRTEGPRSLYNGLVAGLQRQMSFASVRIGLY	100
100	DSVKOVYTPKGADNSSLTTRILAGCTTGAMAVTCAOPTDVVKVRFOASIH	149
101		149
150	LGPSRSDRKYSGTMDAYRTIAREEGVRGLWKGTLPNIMRNAIVNCAEVVT	199
150	:: : : : :	196
200	YDILKEKLLDYHLLTDNFPCHFVSAFGAGFCATVVASPVDVVKTRYMNSP	249
197	:: : . : : :: : : : :	246
250	PGQYFSPLDCMIKMVAQEGPTAFYKGFTPSFLRLGSWNVVMFVTYEOLKR	299
247		296
300	ALMKVQMLRESPF 312	
297	· · ALMAACTSREAPF 309	